

HEAT EXCHANGER FOR THE AIR INTAKE SYSTEM OF A HEAT ENGINE**Patent number:** WO2004017006**Publication date:** 2004-02-26**Inventor:** POTIER MICHEL (FR); MARTINS CARLOS (FR)**Applicant:** VALEO THERMIQUE MOTEUR (FR); POTIER MICHEL (FR); MARTINS CARLOS (FR)**Classification:****- international:** F28D1/04**- european:** F01N3/02; F02B29/04D4; F02B29/04D8; F02M25/07B4G; F28D9/00F4B; F28D9/00P; F28F21/08; F28F27/02**Application number:** WO2003FR02375 20030728**Priority number(s):** FR20020010164 20020809**Also published as:**

WO2004017006 (A3)

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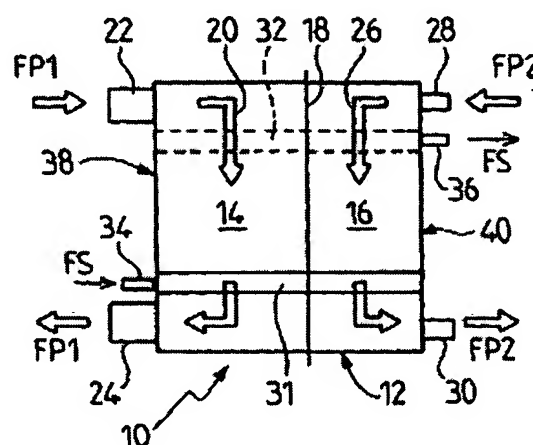
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Abstract of WO2004017006

The invention relates to a heat exchanger that is designed to be mounted to the air intake system of a heat engine. The inventive exchanger consists of a body (12) which is divided into a first part (14) comprising circulation passages (20) for a first primary fluid (FP1), namely the charge air for the engine, and a second part (16) comprising circulation passages (26) for a second primary fluid (FP2), e.g. the engine exhaust gases. The aforementioned body also comprises circulation passages (31, 32) for a secondary fluid (FS), e.g. a coolant, which is common to both parts of the exchanger. The invention is suitable for turbocharger diesel engines.



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